

US 10,888,531 B2

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(56)	References Cited	
U.S. PATENT DOCUMENTS		
6,103,526 A	8/2000	Smith et al.
6,111,058 A	8/2000	Warzelhan et al.
6,153,252 A	11/2000	Hossainy et al.
6,171,610 B1	1/2001	Vacanti et al.
6,210,441 B1	4/2001	Flodin
6,221,997 B1	4/2001	Woodhouse et al.
6,228,391 B1	5/2001	Shimizu et al.
6,245,532 B1	6/2001	Smith et al.
6,299,597 B1	10/2001	Buscemi et al.
6,342,300 B1	1/2002	Bengs et al.
6,352,667 B1	3/2002	English
6,365,160 B1	4/2002	Webb et al.
6,428,807 B1	8/2002	MacFarlan et al.
6,476,204 B1	11/2002	Kim et al.
6,503,538 B1	1/2003	Chu et al.
6,521,431 B1	2/2003	Kiser et al.
6,541,606 B2	4/2003	Margolin et al.
6,660,525 B2	12/2003	Martin et al.
6,703,040 B2	3/2004	Katsarava et al.
6,716,445 B2	4/2004	Won et al.
6,793,938 B2	9/2004	Sankaram
6,830,747 B2	12/2004	Lang et al.
6,982,249 B1	1/2006	Schmaier et al.
6,984,393 B2	1/2006	Amsden
6,994,867 B1	2/2006	Hossainy et al.
7,026,156 B1	4/2006	Clark et al.
7,041,785 B1	5/2006	Recoli et al.
7,122,202 B2	10/2006	Allen et al.
7,220,816 B2	5/2007	Pacetti et al.
7,304,122 B2	12/2007	Chu et al.
7,408,018 B2	8/2008	Chu et al.
7,538,180 B2	5/2009	Pacetti et al.
7,649,022 B2	1/2010	Gomurashvili et al.
7,658,727 B1	2/2010	Fernandes et al.
7,670,829 B2	3/2010	Spagnoli et al.
7,744,861 B2	6/2010	Zhao et al.
7,785,618 B2	8/2010	Elmaleh et al.
7,794,494 B2	9/2010	Sahatjian et al.
7,794,706 B2	9/2010	Carpenter et al.
7,863,406 B2	1/2011	Chu et al.
7,935,493 B2	5/2011	Michnick et al.
8,067,031 B2	11/2011	Daniloff et al.
8,163,269 B2	4/2012	Carpenter et al.
9,963,549 B2 *	5/2018	Draaisma C08J 5/18
2001/0038851 A1	11/2001	Allen et al.
2002/0015720 A1	2/2002	Katsarava et al.
2002/0034532 A1	3/2002	Brodbeck et al.
2002/0044972 A1	4/2002	Davis et al.
2002/0049495 A1	4/2002	Kutryk et al.
2002/0106369 A1	8/2002	Horvath et al.
2002/0147296 A1	10/2002	Tellez et al.
2002/0164374 A1	11/2002	Jackson et al.
2002/0165347 A1	11/2002	Fox et al.
2002/0168338 A1	11/2002	Baird
2002/0173586 A1	11/2002	Jeong et al.
2003/0064053 A1	4/2003	Liu et al.
2003/0130185 A1	7/2003	Bar-Or et al.
2003/0175239 A1	9/2003	Margolin et al.
2003/0215454 A1	11/2003	Colb et al.
2003/0217748 A1	11/2003	Giroux
2003/0229393 A1	12/2003	Kutryk et al.
2004/0017387 A1	1/2004	Soltero et al.
2004/0024069 A1	2/2004	Chen et al.
2004/0057958 A1	3/2004	Waggoner, Jr. et al.
2004/0063606 A1	4/2004	Chu et al.
2004/0110285 A1	6/2004	Lendlein et al.
2004/0170685 A1	9/2004	Carpenter et al.
2004/0213759 A1	10/2004	Zalipsky et al.
2004/0213766 A1	10/2004	Francois
2004/0253293 A1	12/2004	Shafiee et al.
2004/0254151 A1	12/2004	Ralston et al.
2004/0258702 A1	12/2004	Blonder et al.
2005/0004378 A1	1/2005	Mane et al.
2005/0013812 A1	1/2005	Dow et al.
2005/0019366 A1	1/2005	Zeldis
	2005/0019404 A1	1/2005 Sung et al.
	2005/0025752 A1	2/2005 Kutryk et al.
	2005/0043787 A1	2/2005 Kutryk et al.
	2005/0053667 A1	3/2005 Irvine et al.
	2005/0064602 A1	3/2005 Kaufman et al.
	2005/0169968 A1	8/2005 Elmaleh et al.
	2005/0175583 A1	8/2005 Tamarkin et al.
	2005/0208091 A1	9/2005 Pacetti
	2005/0216074 A1	9/2005 Sahatjian et al.
	2005/0238689 A1	10/2005 Carpenter et al.
	2005/0245637 A1	11/2005 Hossainy et al.
	2005/0260259 A1	11/2005 Bolotin
	2005/0265960 A1	12/2005 Pacetti et al.
	2005/0271700 A1	12/2005 DesNoyer et al.
	2005/0271701 A1	12/2005 Cottone, Jr. et al.
	2005/0287184 A1	12/2005 Hossainy et al.
	2005/0288481 A1	12/2005 DesNoyer et al.
	2006/0002947 A1	1/2006 Humphreys et al.
	2006/0008532 A1	1/2006 Govardhan et al.
	2006/0009498 A1	1/2006 Whitcup
	2006/0013855 A1	1/2006 Carpenter et al.
	2006/0024357 A1	2/2006 Carpenter et al.
	2006/0036311 A1	2/2006 Nakayama et al.
	2006/0074191 A1	4/2006 DesNoyer et al.
	2006/0093842 A1	5/2006 DesNoyer et al.
	2006/0115455 A1	6/2006 Reed et al.
	2006/0121012 A1	6/2006 Kutryk et al.
	2006/0135476 A1	6/2006 Kutryk et al.
	2006/0159918 A1	7/2006 Dugan et al.
	2006/0177416 A1	8/2006 Turnell et al.
	2006/0188469 A1	8/2006 Turnell et al.
	2006/0188486 A1	8/2006 Carpenter et al.
	2006/0222546 A1	10/2006 Lee et al.
	2006/0224331 A1	10/2006 Watson Michnick et al.
	2006/0286064 A1	12/2006 Turnell et al.
	2007/0042017 A1	2/2007 Kutryk et al.
	2007/0055367 A1	3/2007 Kutryk et al.
	2007/0066541 A1	3/2007 Hughes et al.
	2007/0071790 A1	3/2007 Ameer et al.
	2007/0077272 A1	4/2007 Li et al.
	2007/0106035 A1	5/2007 Gomurashvili et al.
	2007/0128250 A1	6/2007 Katsarava et al.
	2007/0134332 A1	6/2007 Turnell et al.
	2007/0141100 A1	6/2007 Sung et al.
	2007/0141107 A1	6/2007 Kutryk et al.
	2007/0156232 A1	7/2007 Kutryk et al.
	2007/0160622 A1	7/2007 Turnell et al.
	2007/0167605 A1	7/2007 Chu et al.
	2007/0191932 A1	8/2007 Kutryk et al.
	2007/0196422 A1	8/2007 Kutryk et al.
	2007/0213801 A1	9/2007 Kutryk et al.
	2007/0282011 A1	12/2007 Gomurashvili et al.
	2007/0287987 A1	12/2007 Katsarava et al.
	2007/0292476 A1	12/2007 Landis et al.
	2007/0299155 A1	12/2007 Carpenter et al.
	2008/0020015 A1	1/2008 Carpenter et al.
	2008/0050419 A1	2/2008 Katsarava et al.
	2008/0057024 A1	3/2008 Zhang et al.
	2008/0160089 A1	7/2008 Vitiello et al.
	2008/0288057 A1	11/2008 Carpenter et al.
	2008/0299174 A1	12/2008 Gomurashvili et al.
	2009/0022772 A1	1/2009 Carpenter et al.
	2009/0029937 A1	1/2009 Chu et al.
	2009/0068743 A1	3/2009 Turnell et al.
	2009/0202620 A1	8/2009 Turnell et al.
	2009/0232874 A1	9/2009 Chu et al.
	2009/0238854 A1	9/2009 Pacetti et al.
	2009/0253809 A1	10/2009 Gomurashvili et al.
	2010/0004390 A1	1/2010 Turnell et al.
	2010/0040664 A1	2/2010 Katsarava et al.
	2011/0027379 A1	2/2011 Chu et al.
	2011/0104069 A1*	5/2011 Xu A61K 9/0048 424/9.6
	2011/0137406 A1	6/2011 Carpenter et al.
	2012/0027859 A1	2/2012 Turnell et al.
	2012/0282299 A1	11/2012 Delamarre et al.
	2012/0328706 A1	12/2012 Turnell et al.
	2013/0323306 A1*	12/2013 Weber A61K 9/146 424/489